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26. *EQUISETUM HYEMALE* L. Only this one species of *Equisetum* is known to occur in the county and it is not abundant, being confined to the low ground along the edges of the larger streams like the James and Sac.

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### A Collector's List of New Jersey Ferns

MACY CARHART

The following list represents collections made by the writer in the vicinity of Keyport and in other parts of New Jersey. Seventy-nine different forms are included, of which sixteen are in the genera *Equisetum*, *Lycopodium*, *Selaginella* and *Isoetes*, leaving the number of ferns at sixty-three. The list includes all but four of the fifty fern species recorded from New Jersey in Norman Taylor's recently published Flora of the Vicinity of New York and to a certain extent supplements that work, which takes no account of varieties and gives no localities at which the hybrids mentioned have actually been found. One of these hybrids, named here as *Dryopteris Clintoniana*  $\times$  *cristata*, has never been regularly described,<sup>1</sup> but the plant is fairly distinct and not difficult to recognize. The plants mentioned in the list are all represented by herbarium specimens.

*Polypodium vulgare* L.; Keyport, rare; northern parts, common.

*Phegopteris polypodioides* Fée; Newton, one colony.

“ *hexagonoptera* Fée; Keyport, common.

“ *Dryopteris* (L.) Fée; Newton, Phillipsburg.

*Adiantum pedatum* L.; Keyport, frequent.

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<sup>1</sup> Though mentioned in the Flora of Vermont, Vt. Agr. Exp. Sta., Bull. no. 187, 155. (April, 1915.) C. A. W.

- Pteris aquilina* L.; Keyport, common.  
 “ *pseudocaudata* Clute; Toms River.  
*Cheilanthes lanosa* (Michx.) Watt; Milford, Great Notch.  
*Pellaea atropurpurea* (L.) Link; Newton, Phillipsburg.  
*Woodwardia virginica* (L.) J. E. Smith; Keyport, frequent.  
 “ *areolata* (L.) Moore; Keyport, common.  
*Asplenium pinnatifidum* Nutt.; Blairstown, one colony.  
 “ *ebenoides* R. R. Scott; Springdale near Newton, two plants.  
 “ *Trichomanes* L.; frequent in northern parts.  
 “ *platyneuron* (L.) Oakes; Keyport, common.  
 “ “ *serratum* (E. S. Miller) B. S. P.  
 Keyport, one colony, about twenty plants.  
 “ *montanum* Willd.; above Phillipsburg, one colony, 30-40 plants.  
 “ *Ruta-muraria* L.; Phillipsburg, Newton.  
 “ *acrostichoides* Sw.; Keyport, frequent.  
 “ *Filix-foemina* (L.) Bernh.; Keyport, common.  
*Camptosorus rhizophyllus* (L.) Link; northern parts of state, frequent.  
*Polystichum acrostichoides* (Michx.) Schott; Keyport, common.  
 “ “ *incisum* A. Gray; Keyport, occasional.  
*Dryopteris Thelypteris* (L.) A. Gray; Keyport, common.  
 “ *simulata* Davenp.; Keyport, one colony, six plants; Morganville, abundant.  
 “ *noveboracensis* (L.) A. Gray; Keyport, common.  
 “ *marginalis* (L.) A. Gray; Keyport, occasional.  
 “ “ *elegans* (J. Robinson) n. comb.  
 Lambertville.  
 “ *Goldiana* (Hook.) A. Gray; Lodi, Newton.  
 Apparently not previously reported from Bergen Co.

*Dryopteris cristata* (L.) A. Gray; Keyport, occasional; common northward

“ *Clintoniana* (D. C. Eaton) Dowell; Lodi; Morganville. According to Taylor’s Flora, previously known from only one station in the coastal plain and not recently collected there.

“ *spinulosa* (Muell.) Kuntze; Keyport, Lodi.

“ *intermedia* (Muhl.) A. Gray; Keyport, frequent; common northward.

Near Keyport there is an unusually large form of this species with tripinnate fronds which probably is *Aspidium spinulosum*, var. *concordianum* (Davenp.) Eastman of Gray’s Manual.

*Dryopteris dilatata* (Hoff.) A. Gray; Lake Hopatcong.

“ *cristata* × *intermedia* Dowell; Keyport, Lodi, Lake Hopatcong.

“ “ × *marginalis* Davenp.; Lodi, Lake Hopatcong.

“ *Clintoniana* × *intermedia* Dowell; Lodi.

“ “ × *marginalis* Slosson; Lodi.

“ “ × *Goldiana* Benedict; Lodi.

“ *Goldiana* × *marginalis* Dowell; Lodi.

“ *cristata* × *Goldiana* Benedict; Lodi.

“ “ × *Clintoniana*; Lodi.

“ *intermedia* × *marginalis* Benedict; Lake Hopatcong.

*Cystopteris bulbifera* (L.) Bernh.; Newton, Phillisburg.

“ *fragilis* (L.) Bernh.; Keyport, frequent; common northward.

*Woodsia ilvensis* (L.) R. Br.; Pompton, Montclair Heights.

“ *obtusata* (Spreng.) Torr.; Keyport, rare; frequent northward.

*Dicksonia punctilobula* (Michx.) Gray; Keyport, common.

*Onoclea sensibilis* L.; Keyport, common.

“ *Struthiopteris* (L.) Hoffm.; Lambertville.

- Osmunda regalis* L.; Keyport, common.  
 “ *Claytoniana* L.; Keyport, frequent.  
 “ *cinnamomea* L.; Keyport, common.  
 “ “ *frondosa* Gray; Lodi.  
*Ophioglossum vulgatum* L.; Lodi.  
*Botrychium obliquum* Muhl.; Keyport, frequent.  
 “ *dissectum* Spreng.; Keyport, frequent.  
 “ “ *elongatum* Gilbert & Haberer;  
 Keyport, two plants.  
*Botrychium ternatum intermedium* D. C. Eaton; Newton,  
 Morganville.  
 “ *virginianum* L.; Keyport, common.  
*Schizaea pusilla* Pursh; Toms River.  
*Lygodium palmatum* (Bernh.) Sw.; Keyport, occasional.  
*Equisetum arvense* L.; Keyport, common.  
 “ *hyemale* L.; Keyport, Phillipsburg.  
 “ *sylvaticum* L.; Lodi.  
*Lycopodium lucidulum* Michx.; Keyport, frequent.  
 “ *alopescuroides* L.; Toms River.  
 “ *inundatum* L.; Keyport.  
 “ “ *Bigelovii* Tuck.; Keyport, fre-  
 quent.  
 “ *adpressum* L. & U.; Keyport, frequent.  
 “ *clavatum* L.; Newton.  
 “ *obscurum* L.; Keyport, frequent.  
 “ “ *dendroideum* (Michx.) D. C. Eaton;  
 Keyport, frequent.  
 “ *carolinianum* L.; Toms River.  
 “ *complanatum flabelliforme* Fernald; Keyport,  
 occasional.  
*Selaginella rupestris* (L.) Spring; Montclair Heights.  
 “ *apus* (L.) Spring; Keyport.  
*Isoetes riparia* Engelm.; Camden.  
 “ *echinospora Braunii* (Dur.) Engelm.; Lake Hopat-  
 cong, Budd's Lake.

KEYPORT, N. J.